



396648

OUTBOARD MARINE CORPORATION

100 Sea Horse Drive
Waukegan, Illinois 60085-2195
Phone 847/689-6200

2 September 1997

Mr. Michael E. Bellot
Remedial Project Manager
/Waukegan Harbor Site On-Scene Coordinator
U.S. Environmental Protection Agency
77 W. Jackson Boulevard SR-6J
Chicago, IL 60604-3590

VIA CERTIFIED MAIL

**RE: Waukegan Harbor Superfund Site
United States of America and the People of the State of Illinois
vs. the Outboard Marine Corporation
Civil Action #88 C 8571
Transmittal of Quarterly Report**

Dear Mr. Bellot:

As called for in the subject consent decree, OMC herein submits a quarterly report for the period ending August 31, 1997. Please note the discussion of the treatment system operational difficulties and resulting maintenance activities. If you have any questions, please feel free to call me at 847/689-5228 or Roger Crawford at 847/689-5219.

Sincerely,

Tricia Sutton
Senior Environmental Specialist
Manager - Remediation

enclosure

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cc: See distribution list (attached)

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QUARTERLY PROGRESS REPORT

**JUNE 1, 1997
THROUGH
AUGUST 31, 1997**

**WAUKEGAN HARBOR REMEDIAL
ACTION**

QUARTERLY PROGRESS REPORT

JUNE 1, 1997 THROUGH AUGUST 31, 1997

WAUKEGAN HARBOR REMEDIAL ACTION

This report presents a quarterly report for the above specified time period for the Waukegan Harbor Superfund Site pursuant to the Consent Decree for remedial action.

WORK COMPLETED, NEW DATA AND TEST RESULTS

Attachment 1 contains copies of Discharge Monitoring Reports for NPDES Permit No. IL0002267 for May, June, and July 1997.

Pumping with the Category 5 water treatment system to decrease the water level of the West Containment Cell occurred during June, July, and August. Pumping of the Slip No. 3 Containment Cell occurred during August. The East Containment Cell treatment system was started briefly during August and a leak was discovered so the system was shut down until repairs can be scheduled. Tables 1a, 1b, and 1c summarize the analytical results received during the quarter for samples collected from the Category 5 water treatment systems. Attachment 2 contains copies of the analytical reports received for the treatment plant samples. Tables 2a, 2b, and 2c summarize the Category 5 water treatment plant operational data for the Slip No. 3, East, and West Containment Cells respectively.

A number of difficulties occurred with the treatment system operation during the quarter:

- ▶ The chlorinator for the West Containment Cell system apparently built up excessive pressure and burst while unattended. The problem was discovered in early June when inspecting the system for pumping. That system was repaired and pressure relief valves were added to all three systems. The pressure relief valve on the East Cell system corroded after installation and leaks water, preventing the system from being used until repairs can be made.
- ▶ When operating the West Cell system, a problem occurred with water on the floor. After detailed testing and checking by the manufacturer, Great Lakes Carbon Treatment, it was determined that the water was from excessive accumulation of condensation due to hot, humid summer weather. The floor sump drains are designed to serve for emergency purposes and were not intended to drain quickly or to handle continual water. The floors do not drain well to the sump due to the weight of the carbon vessels so there is standing water on the floor during operation. Modifications are being reviewed to help reduce the amount of effort required to address the condensation problems. The water on the floor does not effect operation except when accumulation exceeds the ability of the sump to drain and the water sets off the sump alarm.

- ▶ The Slip No. 3 recovery wells are producing higher amounts of fine sediments than at the other containment cells. There is also evidence that the screens may be becoming fouled or plugged, possibly due to bacterial precipitation as well as sediment. The wells cycle on and off frequently as if they are not producing water properly. The wells will be refurbished as done last year by addition of chlorine to kill off bacteria and then treatment with an acidic solution to clean the screen.
- ▶ Apparently due to sediment, one of the influent sample ports and a couple valves in the Slip No. 3 system appear to be clogged and not operating fully. The treatment system can operate safely until maintenance can be scheduled.

Tables 3, 4, and 5 present water level measurements collected this quarter for the Slip No. 3, East, and West Containment Cells respectively. An inward hydraulic gradient was maintained at the containment cells throughout the quarter. Table 6 presents water level measurements for the Temporary Designated Soil Stockpile.

Monitoring well W-4, at the Slip No. 3 containment cell has a flush-mounted protective casing. The casing has not been sealing properly to allow the locking cap to be placed on it. The casing was replaced during August, the well standpipe cut down a few inches, and the reference elevation was resurveyed.

Some of the concrete protectors around monitoring wells, recovery wells, and piezometers are too high for comfortable worker access to read water levels and collect samples. To make the well access more ergonomic, portions of the concrete protectors were cut out. In addition, grates equipped with locks were added over the recovery wells.

PLANS FOR NEXT QUARTER

Repairs and modifications described earlier in this report will be completed for the Category 5 Treatment Systems.

Semi-annual groundwater monitoring will be scheduled during October. Monitoring well W-4 will be re-developed at least a week prior to the next groundwater sampling event to be sure that it has not been affected by surface sediments and surface water that might have drained into it while the flush-mounted casing was not fully secured.

LEGAL ISSUES

Magistrate Judge Joan H. Lefkow issued a report and recommendation on motions pertaining to disputed oversight cost charges for 1993, 1994 and 1995 on July 21, 1997 and the report was entered into the docket on July 23, 1997. In her report, Judge Lefkow recommended that US EPA be reimbursed the disputed costs for 1993 and 1994. With respect to disputed costs for 1995, she recommended that EPA be reimbursed except for \$2,804.92 based on US EPA's failure to file a responsive submission. Judge Lefkow also recommended that no interest be charged on disputed amounts.

On August 15, 1997, Outboard Marine Corporation (OMC) filed its objections to the Magistrate's report and recommendation along with a supporting memorandum. US EPA sought and obtained an enlargement of time in order to respond to OMC's objections to the Magistrate's report and recommendation until September 5, 1997.

There have been no other legal developments during the past quarter.

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TABLES

TABLE 1

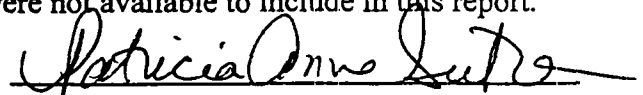
FOURTH QUARTER 1996
CATEGORY 5 WATER TREATMENT
PCB ANALYTICAL RESULTS
WEST CONTAINMENT CELL¹
WAUKEGAN HARBOR REMEDIAL ACTION

Sample I.D.	Sample	Results:
	PCB (ug/l) 6/13/97	PCB (ug/l) 6/19/97
T5E	ND	ND
T5I	2.05 (1248)	4 (R-5) (1248) ND (R-6)
T5-ID	2.18(1248)	--
T5-LC	ND	ND

Notes:

T5 = Category 5 Water Treatment System
E = System Effluent
LC = Lead Carbon Effluent
I = Influent
D = Duplicate
B = Blank
-- = Not collected
ND = Not detected/below laboratory detection limit
R = Recovery well and number (Influent samples for the treatment systems may be collected either from a combined influent port or for individual recovery wells.)

¹ The West and Slip No. 3 Containment Cell treatment systems were again sampled on 8/21/97 but the analytical results were not available to include in this report.



Discharge Monitoring Data Certified by

Patricia Anne Sutton

OMC Project Coordinator

TABLE 2a
CATEGORY 5 WATER TREATMENT PLANT
OPERATIONAL DATA
SLIP NO. 3 CONTAINMENT CELL

DATE/TIME	TOTALIZER R-1	TOTALIZER R-2	GALLONS PER PERIOD	GALLON S TOTAL	COMMENT
8/21/97 10:45	172815 (off)	148186	--	--	Checked system for start-up. Pumped with R-2 only. Sump float and high pressure shut-offs tested ok. R-2 cycles on and off frequently, e.g., after only pumping < 10 gals (< 1 minute). Changing flow rate does not affect pumping cycle. Otherwise system runs well.
8/21/97 14:45	172815 (off)	149336	1150	1150	R-2 still cycling on & off frequently. Collected treatment system samples.
8/21/97 15:00	172815 (off)	149420	84	1234	Shut down system and added 1 gal. commercial chlorine bleach to both wells.
8/25/97 15:30	172815	149420	--	1234	Checked & changed Rosedale filter bag. Bag was stained very dark(brown/black) with fine sediment in it. Checked floor sump float and high pressure shut-offs. Both work properly. Individual well influent sample ports work ok but combined system effluent sample port appears clogged (does not yield water when open). Tested both well pumps and started system. R-2 still cycling on and off frequently and appears that may either be clogged or pump sensors are malfunctioning. Decided to let pump run for awhile to see if well opens up. R-1 seemed to have air in line but pumps ok. Rosedale pressure increases from 18 psi when only R-1 is on to 30-31 psi when both wells are pumping. Lead carbon vessel pressure also increases slightly also with both wells pumping.
8/27/97 11:55	187754	160259	25778	27012	R-2 still cycling frequently. Filter Pressure still varies (increases) when both wells are pumping. Some condensation on accumulating on floor by tanks.
8/27/97 11:25	194090	165320	11397	38409	Shut off both pumps and changed filter bag. Lots of fine light brown colored sediment in bag. Valve under Rosedale filter is tight/hard to open/close. Restarted only R-1 and will schedule R-2 for maintenance.
8/29/97 07:35	201650	165320	7560	45969	Something in control panel makes periodic buzz/hum. Seems to be right before well (R-1) shuts off. R-1 is now cycling on/off frequently. Reduced flow rate some but still cycles. Well may need maintenance.

TABLE 2b
CATEGORY 5 WATER TREATMENT PLANT
OPERATIONAL DATA
EAST CONTAINMENT CELL

DATE/TIME	TOTALIZER R-3	TOTALIZER R-4	GALLONS PER PERIOD	GALLONS TOTAL	COMMENT
8/21/97 10:00	237782	273991	--	--	Checked system for start-up. Slight chlorine odor in building. The brass pressure relief valve has corrosion on it's ID plate. Started up system at 10:10 with both wells R-3 and R-4 pumping. Both well pumps work fine. After a few gallons are pumped, drip leak in pressure relief valve becomes apparent (even though valves to chlorinator appear shut). Shut down system and drained liquid out of chlorinator loop and shut valves to chlorinator to cut off flow. Restarted system and leak still occurs. Valve to chlorinator loop must leak water into loop even when they are in closed position. Valves and pressure relief device will need to be repaired before system may be operated. Repairs will be scheduled.

TABLE 2c
CATEGORY 5 WATER TREATMENT PLANT
OPERATIONAL DATA
WEST CONTAINMENT CELL

DATE/TIME	TOTALIZER R-5	TOTALIZER R-6	GALLONS PER PERIOD	GALLONS TOTAL	COMMENT
6/9 /97	--	--	--	--	Went out to inspect system for start-up. Found major damage to system. Chlorinator loop apparently built up pressure and burst. There is damage to piping in vicinity of chlorinator, insulation damage, and many items are corroding from the acid liquid/vapor emitted.
6/11-12/97	--	--	--	--	Great Lakes Carbon Treatment completed repairs of the West cell system and added a pressure relief valve to the chlorinator of all three treatment systems.
6/12/97 15:00	219665	173720	--	--	Start-up of system after repairs. Tested floor sump float shut-off which works ok. Tested high pressure shut-off which works ok. Shut off system to change Rosedale filter bag. Restarted to complete test/observations for system leaks; no leaks observed. System ok.
6/12/97 15:50	219845	173911	371	371	Shut down after testing/inspection.
6/13/97 08:20	219845	173911	--	--	Start-up of system.
6/13/97 09:10	220374	174332	950	1321	Collected samples for analysis.
6/14/97 15:10	238425	188741	33642	34963	System running ok.
6/16/97 09:00	263460	209070	45364	80327	Ok.
6/17/97 10:00	278820	221390	27680	108007	Ok.
6/18/97 10:00	293380	233400	26660	134667	Ok.
6/19/97 10:30	308100	245500	26820	161487	Ok.
6/20/97 10:30	321810	256990	25200	186687	Turned R-5, R-6 down to 8 g.p.m. each.
6/23/97 10:00	356220	293180	70600	257287	Ok.
6/24/97 16:20	366303	303715	20618	277905	Received call from Security regarding building alarm flashing. Inspected system and there was water on floor. Opened sump drain to remove water and reset alarm. Shut off pumping wells.

TABLE 2c - Continued
CATEGORY 5 WATER TREATMENT PLANT
OPERATIONAL DATA
WEST CONTAINMENT CELL

DATE/TIME	TOTALIZER R-5	TOTALIZER R-6	GALLONS PER PERIOD	GALLONS TOTAL	COMMENT
8/6/97 13:00	--	--	--	--	John Etling of Canonie/Smith installs grates on recovery wells. OMC has concrete cut-outs from part of some of well protectors that are too high so there is better access fro water level measurement.
8/7/97 12:08	446505	410534	--	--	Maintenance worker repaired sump float. Restarted System.
8/8/97 12:10	454468	423700	35983	612509	Rosedale pressure surges up and down. Some condensation on floor. Heavy condensation on tanks and pipes.
8/11/97 10:50	477285	4858887	43432	655941	Condensation on floor. Rosedale pressure bouncing. Floor sump shut-off shut system down while trying to clear some of water off floor. When restarted with only one well on, Rosedale pressure was more stable and lower (15 psi) but with both wells on, pressure is close to 30 psi.
8/12/97 13:45	485530	471380	20738	676679	Decided to shut off R-5 and only pump with R-6.
8/12/97 19:00	485533	473078	1701	678380	Call from Security about system light alarm. Water on floor is too high and sump float set off high water alarm. Sump is not draining fast enough to keep up with amount of condensation. Shut off system control. Water will need to be vacuumed off floor with shop vac before restart system.
8/13/97 10:00	(off)	(off)	--	--	Inspected system. Water level has not gone down enough.
8/14/97 06:00	(off)	(off)	--	--	Vacuumed about 10 gallons water off of floor into transfer tank.
8/14/97 08:30	485533	473078	--	--	Restart system with R-6 pumping.
8/14/97 10:00	(off)	473900	822	679202	No condensation building up. Pretty cool and dry (weather). Turned pumping rate down to 5-6 gal/min.
8/14/97 13:00	(off)	474740	840	680042	Still no condensation. R-6 pumping at 5 g.p.m.
8/15/97 12:00	(off)	481680	6940	686982	A lot more humid today. Still not too bad; no water on floor. (Fan off; no new air to dehumidify).
8/16/97 08:00	(off)	485530	3850	690832	Ok.

TABLE 2c - Continued
CATEGORY 5 WATER TREATMENT PLANT
OPERATIONAL DATA
WEST CONTAINMENT CELL

DATE/TIME	TOTALIZER R-5	TOTALIZER R-6	GALLONS PER PERIOD	GALLONS TOTAL	COMMENT
6/25/97 00:25 (midnight)	(off)	(off)	--	--	Received call from Security. Alarm light on again. Told them system is off and should be ok until morning.
6/25/97 07:20	(off)	(off)	--	--	Checked system. Sump is full again. Opened sump and left open to drain water. Reset alarm. Possible tank leak; will schedule inspection/repair with Great Lakes Carbon Treatment.
6/27/97 08:35	(off)	(off)	--	--	Inspected system again. Floor has dried. Can not tell where leak may have been from. Closed sump valve. Great Lakes contacted.
6/30/97 14:30	(off)	(off)	--	--	Great Lakes arrived about 12:30 to check system. They reported they started system to test it and could not find a leak (did pressure tests, etc.) but think it might be from excessive condensation. Tanks are sweating a lot. Suggested we check it after running for awhile (and in morning too).
6/30/97 18:10	369010	306610	5602		Checked for water. There is water that appears to be from condensation. Tanks are sweating a little less than during the day. Mopped up some of the water but still some pooled on floor. Otherwise, system seems to be running ok.
7/2/97	390124	329035	43539	327046	Checked system. Water on floor apparently from condensation. Opened sump so floor will drain and hopefully prevent shutdown.
7/3/97 16:05	402173	341465	136079	463125	Shut down system.
7/30/97 16:30	402173	341465	--	--	Checked system. Started system.
7/31/97 07:25	407006	350250	13618	476743	System looks good. Only minimal sweating/condensation on tanks/pipes.
8/1/97 17:10	418136	368672	29552	506295	Condensation/water on floor. Tanks and piping showing notable sweating. Opened sump drain & cleared some water off floor. Left drain open for weekend to drain off water.
8/4/97 07:55	439930	399613	51635	557930	Floor covered with water but system running ok. Appears to be condensation.
8/5/97 07:25	446505	410533	18596	576526	Less sweat on tanks but much water still on floor. When pushing water to sump, high level float shut off goes off. Attempted restart at 07:40 but sump not draining well enough. Bumped floor sump float with mop and it broke off. Shut system completely with control switch to turn off alarm. Will discuss system modifications with Great Lakes.

TABLE 2c - Continued
 CATEGORY 5 WATER TREATMENT PLANT
 OPERATIONAL DATA
 WEST CONTAINMENT CELL

DATE/TIME	TOTALIZER R-5	TOTALIZER R-6	GALLONS PER PERIOD	GALLONS TOTAL	COMMENT
8/18/97 11:30	(off)	502360	16830	707662	Some water on floor.
8/21/97 08:35 09:30	(off)	521858 522120	19498 262	727422	Some water on floor by tanks. Collected system samples.
8/25/97 15:20	(off)	550461	28359	755781	Some water on floor in aisle .
8/27/97 15:45	485533 (off)	563838	13377	769158	Tested floor sump float and high pressure shut-off. Both work fine. Demonstrated system operational procedures to new contract technician, including valving for backfluffing of carbon vessels (backfluffed tank A for 4 mins./approx 20 gals.).
8/28/97 11:00	(off)	569050	5212	774370	Some condensation on floor.
8/29/97 07:25	(off)	574657	5607	779977	Condensation covering most of floor around tanks (not quite to sump yet).

SLIP 3 CONTAINMENT CELL GROUND WATER DATA
WAUKEGAN HARBOR REMEDIAL ACTION[illegible]

TABLE 4

EAST CONTAINMENT GROUND WATER DATA
WAUKEGAN HARBOR REMEDIAL ACTION

		W-5	P-5	W-6	P-6	W-7	P-7	W-8	P-8	R-3	R-4
	T.O.R.	588.80	587.90	588.31	587.96	586.71	587.08	586.67	587.86	591.93	591.98
DATE		(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
7/1/97	DEPTH	6.27	8.61	5.79	8.57	4.35	7.55	4.25	8.52	12.59	12.76
7:45 am	ELEV.	582.53	579.29	582.52	579.39	582.36	579.53	582.42	579.34	579.34	579.22
	DIFF.	3.24		3.13		2.83		3.08			
								^Note W-8 measured 6/30,3:30 p.m.			
8/4/97	DEPTH	6.20	8.53	5.78	8.52	4.21	7.47	4.00	8.45	10.45	12.66
	ELEV.	582.60	579.37	582.53	579.44	582.50	579.61	582.67	579.41	581.48	579.32
	DIFF.	3.23		3.09		2.89		3.26			

TABLE 5

**WEST CONTAINMENT GROUND WATER DATA
WAUKEGAN HARBOR REMEDIAL ACTION**

		W-9	P-9	W-10	P-10	W-11	P-11	W-12	P-12	R-5	R-6
	T.O.R.	587.81	588.01	587.51	587.52	589.26	588.12	587.13	587.80	603.83	601.56
DATE		(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
June 10, 1997	DEPTH	Not Taken	Not Taken	Not Taken	Not Taken	Not Taken	Not Taken	4.59	5.93	Not Taken	Not Taken
11:20 am	ELEV.	--	--	--	--	--	--	582.54	581.87	--	--
	DIFF.	--	--	--	--	--	--	0.67			
June 13, 1997	DEPTH	Not Taken	Not Taken	Not Taken	Not Taken	Not Taken	Not Taken	4.88	5.96	25.57	28.72
8:50 am	ELEV.	--	--	--	--	--	--	582.25	581.84	578.26	572.84
	DIFF.	--	--	--	--	--	--	0.41			
June 16, 1997	DEPTH							4.05	6.44	Not Taken	Not Taken
11:00 am	ELEV.	587.81	588.01	587.51	587.52	589.26	588.12	583.08	581.36	--	--
	DIFF.	-0.20		-0.01		1.14		1.72			
June 20, 1997	DEPTH	5.02	8.20	4.62	7.40	5.79	8.73	4.75	7.10	28.67	31.86
10:00 am	ELEV.	582.79	579.81	582.89	580.12	583.47	579.39	582.38	580.70	575.16	569.70
	DIFF.	2.98		2.77		4.08		1.68			
July 1, 1997	DEPTH	4.98	8.47	4.44	8.39	5.98	8.92	4.65	7.41	28.66	32.39
8:10 am	ELEV.	582.83	579.54	583.07	579.13	583.28	579.20	582.48	580.39	575.17	569.17
to 14:20	DIFF.	3.29		3.94		4.08		2.09			
July 30, 1997	DEPTH	4.59	7.64	4.38	7.49	5.97	8.17	4.34	6.81	23.87	21.32
3:45 pm	ELEV.	583.22	580.37	583.13	580.03	583.29	579.95	582.79	580.99	579.96	580.24
	DIFF.	2.85		3.10		3.34		1.80			
August 4, 1997	DEPTH	4.98	8.91	4.53	8.69	6.11	9.16	4.71	7.62	27.73	
	ELEV.	582.83	579.10	582.98	578.83	583.15	578.96	582.42	580.18	576.10	601.56
	DIFF.	3.73		4.15		4.19		2.24			
August 27, 1997	DEPTH	4.51	9.17	Not Taken	Not Taken	Not Taken	Not Taken	Not Taken	Not Taken	Not Taken	Not Taken
3:57 pm	ELEV.	583.30	578.84	--	--	--	--	--	--	--	--
	DIFF.	4.46		--	--	--	--	--	--	--	--

TABLE 6
TEMPORARY DESIGNATED SOIL STOCKPILE (PNA Cell)
WATER LEVEL READINGS
WAUKEGAN HARBOR REMEDIAL ACTION

	READING				
READING	ABOVE	ELEVATION	ACTION	DIFFERENCE	COMMENTS/
DATE	SUMP	(feet MSL)	LEVEL	(IN INCHES)	INSPECTION NOTES
	(IN INCHES)		(feet MSL)		
06/27/97	34.50	585.69	586.14	-5.46	Bird has vacated nest on manhole cover. Removed old nest. Odor of droppings is pervasive. Cover of cell ok. Some weeds have started to grow in low areas of cover where mud has accumulated.
07/30/97	35.50	585.77	586.14	-4.46	Cover Ok.
08/27/97	36.00	585.81	586.14	-3.96	Cover Ok.

ATTACHMENT 1
DISCHARGE MONITORING REPORTS



OUTBOARD MARINE CORPORATION

100 Sea Horse Drive
Waukegan, Illinois 60085-2195
Phone 847/689-6200

June 27, 1997

Mr. Dan Ray
Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
2200 Churchill Road
Springfield, IL 62794-9276

Re: Discharge Monitoring Report - May 1997
NPDES Permit No. IL 0002267

Dear Mr. Ray:

Enclosed is the May 1997, Discharge Monitoring Report for the OMC Waukegan facility.

Flow data was not collected for outfall 008, due to a transmitter failure that was not discovered during this reporting period. Subsequent to our discovery, the flow meter for outfall 008 is being read manually, pending repair of the computerized recording system. Typically outfall 008, which is an overflow from outfall 007, has little or no flow.

If you have any questions regarding this matter, I can be contacted at 847 / 689-5363.

Sincerely,

A handwritten signature in black ink, reading "Anthony M. Montemurro". The signature is written in a cursive, flowing style with a large, prominent "A" and "M".

Anthony M. Montemurro, CHMM
Environmental Control Specialist
OMC Waukegan

encl.

cc: L. Keller
B. Kuester
J. Moran

dray178.97

DISCHARGE MONITORING REPORT

PERMITTEE NAME: **OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION**

ADDRESS: **100 SEA-HORSE DRIVE
WAUKEGAN, IL 60085** **ATTN: ANTHONY MONTEMURRO**

PHONE: **(847)689-5363**

COMMENTS

(2-3) IL ST	(4-16) 0002267 PERMIT NUMBER	(17-19) 001 DIS	3519 SIC	42° 21' 48" LATITUDE	87° 49' 18" LONGITUDE
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REPORTING PERIOD FROM

(20-21) 9 YEAR	(22-23) 7 MO	(24-25) 0 DAY
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TO

(26-27) 9 YEAR	(28-29) 7 MO	(30-31) 0 DAY
----------------------	--------------------	---------------------

PARAMETER		QUANTITY					CONCENTRATION					FREQUENCY OF ANALYSIS	SAMPLE TYPE
		3 card only		4 card only			3 card only		4 card only				
		(38-34) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	(62-62) UNITS	(62-62) NO EX.	(38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	(62-62) UNITS	(62-62) NO EX.		
FLOW	REPORTED	0.270	0.328	0.390	10 ⁶	0						4/30	24 HOUR
	PERMIT CONDITION				Gallons							1/30	24 HOUR
pH (00440)	REPORTED						7.2	7.2	7.2		0	1/30	GRAB
	PERMIT CONDITION						6		9			1/30	GRAB
TEMPERATURE (00010)	REPORTED						60	60	60		0	1/30	GRAB
	PERMIT CONDITION									F		1/30	GRAB
POLYCHLORINATED BIPHENYLS	REPORTED						<0.0005	<0.0005	<0.0005		0	1/7	24 HOUR
	PERMIT CONDITION								0.005	mg/l		1/7	24 HOUR
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
NAME OF PRINCIPAL EXECUTIVE OFFICER		TITLE OF THE OFFICER		DATE		I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate						SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	
POOLE, GLENN E.		PLANT MANAGER		9 7 0 6 2 7 YEAR MO DAY									
LAST FIRST MI		TITLE		YEAR MO DAY									

IL532-0092
WPC 242 11/79

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1042. Disclosure of this information is required. Failure to do so may result in a civil penalty up to \$10,000.00 per day of violation or a fine up to \$25,000.00 per day of violation and imprisonment up to one year. This form has been approved by the Forms Management Center.

PAGE 1 OF 8

044-020

DISCHARGE MONITORING REPORT

EPA - Region II

COMMENTS

PERMITTEE NAME: OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION

ADDRESS: 100 SEA-HORSE DRIVE
WAUKEGAN, IL 60085 ATTN: ANTHONY MONTEMURRO* DUE TO THE INSTALLATION OF A CLOSED LOOP COOLING SYSTEM IN
DECEMBER 1993, DISCHARGE FROM THIS OUTFALL HAS BEEN ELIMINATED.

PHONE: (847)689-5363

(2-3) IL ST	(4-10) 0002267 PERMIT NUMBER	(17-19) 006 DIS	3519 SIC	42° 21' 51" LATITUDE	87° 49' 17" LONGITUDE
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(20-21) 9 7 YEAR	(22-23) 0 5 MO	(24-25) 0 1 DAY	TO	(26-27) 9 7 YEAR	(28-29) 0 6 MO	(30-31) 0 1 DAY
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PARAMETER		QUANTITY					CONCENTRATION					FREQUENCY OF ANALYSIS	SAMPLE TYPE
		(38-34) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-62) NO EX.	(38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-63) NO EX.		
FLOW	REPORTED	*	*	*	10 ³		*	*	*				24 HOUR
	PERMIT CONDITION				Gallons							1/7	24 HOUR
pH (00440)	REPORTED						*	*	*				GRAB
	PERMIT CONDITION						6		9			1/30	GRAB
TEMPERATURE (00010)	REPORTED						*	*	*				GRAB
	PERMIT CONDITION									F		1/30	GRAB
OIL & GREASE (00550)	REPORTED						*	*	*				GRAB
	PERMIT CONDITION							15	30	mg/l		1/30	GRAB
POLYCHLORINATED BIPHENYLS	REPORTED						*	*	*				24 HOUR
	PERMIT CONDITION								0.005	mg/l		1/7	24 HOUR
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
NAME OF PRINCIPAL EXECUTIVE OFFICER		TITLE OF THE OFFICER			DATE		I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate.					SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	
POOLE, GLENN E. LAST FIRST MI		PLANT MANAGER			9 | 7 YEAR	0 | 6 | 2 | 7 MO DAY							

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 ½, Section 1042. Disclosure of this information is required. Failure to do so may result in a civil penalty up to \$10,000.00 per day of violation or a fine up to \$25,000.00 per day of violation and imprisonment up to one year. This form has been approved by the Forms Management Center.

PAGE 2 OF 8

044-020

NATIONAL POLLUTANT DISCHARGE EXEMPTION SYSTEM
DISCHARGE MONITORING REPORT

EPA - Region II

PERMITTEE NAME: **OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION**

COMMENTS

ADDRESS: **100 SEA HORSE DRIVE
WAUKEGAN, IL 60085** **ATTN: ANTHONY MONTEMURRO**

PHONE: **(847)689-5363**

(2-3) IL	(4-16) 0002267	(17-19) 007	3519	42° 22' 6"	87° 48' 54"
ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE

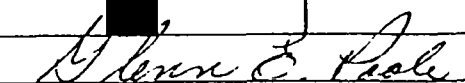
REPORTING PERIOD FROM

(20-21) 9	(22-23) 7	(24-25) 0	(26-27) 5	(28-29) 0	(30-31) 1
YEAR	MO	DAY	YEAR	MO	DAY

TO

(20-21) 9	(22-23) 7	(24-25) 0	(26-27) 6	(28-29) 0	(30-31) 1
YEAR	MO	DAY	YEAR	MO	DAY

PARAMETER		QUANTITY					CONCENTRATION					FREQUENCY OF ANALYSIS	SAMPLE TYPE
		3 card only			UNITS	NO EX.	4 card only			UNITS	NO EX.		
		(38-39) MINIMUM	(40-43) AVERAGE	(44-47) MAXIMUM			(38-39) MINIMUM	(40-43) AVERAGE	(44-47) MAXIMUM				
FLOW	REPORTED	0.011	0.080	0.173	10 ⁶	0						2/7	24 HOUR
	PERMIT CONDITION				Gallons							2/7	24 HOUR
pH (00440)	REPORTED						7.0	7.0	7.0		0	1/30	GRAB
	PERMIT CONDITION						6		9			1/30	GRAB
TEMPERATURE (00010)	REPORTED						61.0	61.0	61.0		0	1/30	GRAB
	PERMIT CONDITION									F		1/30	GRAB
POLYCHLORINATED BIPHENYLS	REPORTED						<0.0005	<0.0005	<0.0005		0	2/7	24 HOUR
	PERMIT CONDITION							0.001	0.005	mg/l		2/7	24 HOUR
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER			DATE			I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate.	 SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT
POOLE, LAST	GLENN FIRST	E. MI	PLANT MANAGER			0	6	0		
			TITLE			0	6	2		
						YEAR	MO	DAY		

IL532-0092
WPC 242 11/79

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1042. Disclosure of this information is required. Failure to do so may result in a civil penalty up to \$10,000.00 per day of violation or a fine up to \$25,000.00 per day of violation and imprisonment up to one year. This form has been approved by the Forms Management Center.

PAGE 3 OF 8

044 020

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION

COMMENTS

ADDRESS: 100 SEA-HORSE DRIVE
WAUKEGAN, IL 60085 ATTN: ANTHONY MONTEMURRO

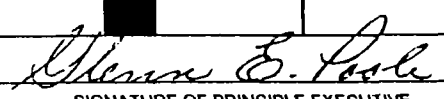
Flow meter readings were not collected for this outfall, due a transmitter failure that was not discovered during the reporting period. Until the transmitter problem is corrected, the flow meter will be read manually and recorded in the sample log. book.

PHONE: (847)689-5363

(2-3) IL ST	(4-16) 0002267 PERMIT NUMBER	(17-19) 008 DIS	3519 SIC	42° 22' 4" LATITUDE	87° 49' 14" LONGITUDE
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REPORTING PERIOD FROM	(20-21) 9 YEAR	(22-23) 7 MO	(24-25) 0 DAY	TO	(26-27) 9 YEAR	(28-29) 7 MO	(30-31) 0 DAY
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(32-37) PARAMETER		QUANTITY					CONCENTRATION					(64-68) FREQUENCY OF ANALYSIS	(69-70) SAMPLE TYPE
		(38-39) MINIMUM	(40-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-63) NO EX.	(38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-63) NO EX.		
FLOW	REPORTED	*	*	*	10 ⁶	0						*	24 HOUR
	PERMIT CONDITION				Gallons							2/7	24 HOUR
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER			DATE			I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate.	 SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT
POOLE, GLENN E.	PLANT MANAGER									
LAST FIRST MI	TITLE	YEAR	MO	DAY						

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 ½, Section 1042. Disclosure of this information is required. Failure to do so may result in a civil penalty up to \$10,000.00 per day of violation or a fine up to \$25,000.00 per day of violation and imprisonment up to one year. This form has been approved by the Forms Management Center.

PAGE 4 OF 8

044-020

DISCHARGE MONITORING REPORT

PERMITTEE NAME: OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION

COMMENTS

ADDRESS: 100 SEA HORSE DRIVE
WAUKEGAN, IL 60085 ATTN: ANTHONY MONTEMURROSTORM WATER DISCHARGES FROM THIS OUTFALL HAVE BEEN DIRECTED TO
THE STORM WATER RETENTION POND. THE POND DISCHARGE HAS BEEN
DESIGNATED TO OUTFALL 017.

PHONE: (847)689-5363

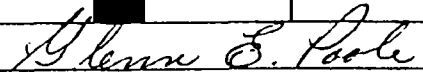
(2-3) IL	(4-16) 0002267	(17-19) 014	3519	42° 22' 15"	87° 49' 18"
ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE

(20-21) 9 | 7	(22-23) 0 | 5	(24-25) 0 | 1	TO	(26-27) 9 | 7	(28-29) 0 | 6	(30-31) 9 | 7
YEAR	MO	DAY		YEAR	MO	DAY

REPORTING PERIOD FROM

TO

PARAMETER		QUANTITY					CONCENTRATION					FREQUENCY OF ANALYSIS	SAMPLE TYPE
		3 card only			UNITS	NO EX.	4 card only			UNITS	NO EX.		
		(38-39) MINIMUM	(40-53) AVERAGE	(54-61) MAXIMUM			(38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM				
FLOW	REPORTED	NO FLOW AT THIS OUTFALL.					10 ⁶						24 HOUR
	PERMIT CONDITION					Gallons							24 HOUR
pH (00440)	REPORTED												GRAB
	PERMIT CONDITION						6		9			1/30	GRAB
TEMPERATURE (00010)	REPORTED												GRAB
	PERMIT CONDITION									F		1/30	GRAB
POLYCHLORINATED BIPHENYLS	REPORTED												24 HOUR
	PERMIT CONDITION							0.001	0.005	mg/l		2/7	24 HOUR
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER		DATE		I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate.	
POOLE, GLENN E.	PLANT MANAGER	9 | 7 | 0 | 6 | 2 | 7						
LAST FIRST MI	TITLE	YEAR MO DAY						

SIGNATURE OF PRINCIPLE EXECUTIVE
OFFICER OR AUTHORIZED AGENT

PAGE 5 OF 8

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1042. Disclosure of this information is required. Failure to do so may result in a civil penalty up to \$10,000.00 per day of violation or a fine up to \$25,000.00 per day of violation and imprisonment up to one year. This form has been approved by the Forms Management Center.

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION

COMMENTS

ADDRESS: 100 SEA-HORSE DRIVE
WAUKEGAN, IL 60085 ATTN: ANTHONY MONTEMURRO

PHONE: (847)689-5363

* SAMPLES REQUIRED FOR EACH PRECIPITATION EVENT GREATER THAN
0.3 INCHES IN A 24 HOUR PERIODSTORM WATER DISCHARGES FROM THIS OUTFALL HAVE BEEN DIRECTED TO
THE STORM WATER RETENTION POND. THE POND DISCHARGE HAS
BEEN DESIGNATED OUTFALL 017.

(2-3)

(4-18)

(17-19)

IL

0002267

015

3519

42° 22' 19"

87° 48' 59"

ST

PERMIT NUMBER

DIS

SIC

LATITUDE

LONGITUDE

(20-21)

(22-23)

(24-25)

(26-27)

(28-29)

(30-31)

REPORTING PERIOD FROM

9 | 7

0 | 5

0 | 1

TO

9 | 7

0 | 6

0 | 1

YEAR

MO

DAY

YEAR

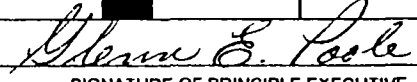
MO

DAY

(32-37)

(64-68)

(69-70)

PARAMETER		QUANTITY			UNITS	NO EX.	CONCENTRATION			UNITS	NO EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		(38-34) MINIMUM	(40-53) AVERAGE	(54-61) MAXIMUM			(38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM				
FLOW	REPORTED	NO FLOW AT THIS OUTFALL.			10 ⁶								Calculation
	PERMIT CONDITION				Gallons							*/30	Calculation
pH (00440)	REPORTED												Grab
	PERMIT CONDITION						6		9			*/30	Grab
TOTAL SUSPENDED SOLIDS	REPORTED												Storm Composite
	PERMIT CONDITION								30	mg/l		*/30	Storm Composite
POLYCHLORINATED BIPHENYLS	REPORTED												Storm Composite
	PERMIT CONDITION								0.005	mg/l		*/30	Storm Composite
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
NAME OF PRINCIPAL EXECUTIVE OFFICER		TITLE OF THE OFFICER		DATE		I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate.							
POOLE, GLENN E.		PLANT MANAGER		9 | 7 | 0 | 6 | 2 | 7									
LAST FIRST MI		TITLE		YEAR MO DAY				SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT					

IL532-0092
WPC 242 11/79This Agency is authorized to require this information under Illinois Revised
Statutes, 1979, Chapter 111 1/2, Section 1042. Disclosure of this information
is required. Failure to do so may result in a civil penalty up to \$10,000.00 per
day of violation or a fine up to \$25,000.00 per day of violation and imprison-
ment up to one year. This form has been approved by the Forms Management Center

PAGE 6 OF 8

044-020

DISCHARGE MONITORING REPORT

EPA - Region II

PERMITTEE NAME: OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION

COMMENTS

ADDRESS: 100 SEA-HORSE DRIVE
WAUKEGAN, IL 60085 ATTN: ANTHONY MONTEMURRO

PHONE: (847)689-5363

* SAMPLES REQUIRED FOR EACH PRECIPITATION EVENT GREATER THAN
0.3 INCHES IN A 24 HOUR PERIODSTORM WATER DISCHARGES FROM THIS OUTFALL HAVE BEEN DIRECTED TO
THE STORM WATER RETENTION POND. THE POND DISCHARGE HAS
BEEN DESIGNATED OUTFALL 017.

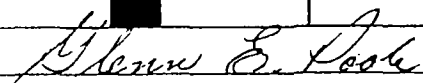
(2-3) IL	(4-15) 0002267	(17-19) 016	3519	42° 22' 19"	87° 49' 15"
ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE

(20-21) 9 | 7	(22-23) 0 | 5	(24-25) 0 | 1	TO	(26-27) 9 | 7	(28-29) 0 | 6	(30-31) 0 | 1
YEAR	MO	DAY		YEAR	MO	DAY

REPORTING PERIOD FROM

TO

PARAMETER		QUANTITY					CONCENTRATION					FREQUENCY OF ANALYSIS	SAMPLE TYPE
		3 card only			UNITS	NO EX.	4 card only			NO EX.			
		(38-34) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM			(38-43) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM				
FLOW	REPORTED	NO FLOW AT THIS OUTFALL.			10 ⁶								
	PERMIT CONDITION				Gallons							*/30	Calculation
pH (00440)	REPORTED												Grab
	PERMIT CONDITION						6			9		*/30	Grab
TOTAL SUSPENDED SOLIDS	REPORTED												Storm Composite
	PERMIT CONDITION									30	mg/l	*/30	Storm Composite
POLYCHLORINATED BIPHENYLS	REPORTED												Storm Composite
	PERMIT CONDITION									0.005	mg/l	*/30	Storm Composite
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER			DATE			I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate.			 SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT		
POOLE, LAST	GLENN FIRST	E. MI	PLANT MANAGER			9 | 7	0 | 5	2 | 7						
			TITLE			YEAR	MO	DAY						

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1042. Disclosure of this information is required. Failure to do so may result in a civil penalty up to \$10,000.00 per day of violation or a fine up to \$25,000.00 per day of violation and imprisonment up to one year. This form has been approved by the Forms Management Center.

PAGE 7 OF 8

044-020

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION

COMMENTS

ADDRESS: 100 SEA-HORSE DRIVE
WAUKEGAN, IL 60085 ATTN: ANTHONY MONTEMURRO* SAMPLES REQUIRED FOR EACH PRECIPITATION EVENT GREATER THAN
0.3 INCHES IN A 24 HOUR PERIOD

PHONE: (847)689-5363

THIS DISCHARGE IS FROM THE STORM RETENTION POND, CONSTRUCTED AS AGREED
TO IN THE CONSENT DECREE ENTERED IN NRDC V. OMC,
N.D. ILL. 87 C 4648

** No precipitation events exceeding 0.3" in 24 hour period during this reporting period.

(2-3)	(4-18)	(17-19)				
IL	0002267	017	3519	42° 22' 19"	87° 49' 15"	
ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE	

(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)
9 | 7	0 | 5	0 | 1	TO	9 | 7	0 | 5	0 | 1
YEAR	MO	DAY		YEAR	MO	DAY

(32-37) PARAMETER		QUANTITY					CONCENTRATION					(64-68) FREQUENCY OF ANALYSIS	(69-70) SAMPLE TYPE		
		3 card only					4 card only								
		(38-34) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-62) NO EX.	(38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-63) NO EX.				
FLOW	REPORTED	**	**	**	10 ⁶								Calculation		
	PERMIT CONDITION				Gallons							*/30	Calculation		
pH (00440)	REPORTED						**	**	**				Grab		
	PERMIT CONDITION						6		9			*/30	Grab		
TOTAL SUSPENDED SOLIDS	REPORTED						**	**	**				Storm Composite		
	PERMIT CONDITION									mg/l		*/30	Storm Composite		
POLYCHLORINATED BIPHENYLS	REPORTED						**	**	**				Storm Composite		
	PERMIT CONDITION									mg/l		*/30	Storm Composite		
	REPORTED														
	PERMIT CONDITION														
	REPORTED														
	PERMIT CONDITION														
	REPORTED														
	PERMIT CONDITION														
	REPORTED														
	PERMIT CONDITION														
	REPORTED														
	PERMIT CONDITION														
NAME OF PRINCIPAL EXECUTIVE OFFICER		TITLE OF THE OFFICER			DATE		I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate					SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT			
POOLE,	GLENN	E.	PLANT MANAGER			9 | 7									
LAST	FIRST	MI	TITLE			YEAR	MO	DAY							

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1042. Disclosure of this information is required. Failure to do so may result in a civil penalty up to \$10,000.00 per day of violation or a fine up to \$25,000.00 per day of violation and imprisonment up to one year. This form has been approved by the Forms Management Center



OUTBOARD MARINE CORPORATION

100 Sea Horse Drive
Waukegan, Illinois 60085-2193
Phone 847/689-6200

July 28, 1997

Mr. Dan Ray
Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
2200 Churchill Road
Springfield, IL 62794-9276

Re: Discharge Monitoring Report - June 1997
NPDES Permit No. IL 0002267

Dear Mr. Ray:

Enclosed is the, June 1997 Discharge Monitoring Report for the OMC Waukegan facility.

If you have any questions regarding this matter, I can be contacted at 847 / 689-5363.

Sincerely,

A handwritten signature in cursive script, reading "Anthony M. Montemurro".

Anthony M. Montemurro, CHMM
Environmental Control Specialist
OMC Waukegan

encl.

cc: L. Keller
B. Kuester
J. Moran

dray209.97

NATIONAL POLLUTANT DISCHARGE ESTIMATION SYSTEM
DISCHARGE MONITORING REPORT

IFPA - Region II

PERMITTEE NAME: **OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION**

COMMENTS

ADDRESS: **100 SEA HORSE DRIVE
WAUKEGAN, IL 60085** **ATTN: ANTHONY MONTEMURRO**

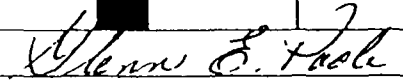
PHONE: **(847)689-5363**

(2-3) IL	(4-16) 0002267	(17-19) 001	3519	42° 21' 48"	87° 49' 18"
ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE

REPORTING PERIOD FROM

(20-21) 9 | 7	(22-23) 0 | 6	(24-25) 0 | 1	TO	(26-27) 9 | 7	(28-29) 0 | 7	(30-31) 0 | 1
YEAR	MO	DAY		YEAR	MO	DAY

PARAMETER		QUANTITY					CONCENTRATION					FREQUENCY OF ANALYSIS	SAMPLE TYPE
		3 card only					4 card only						
		(38-34) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	(62-62) UNITS	(62-62) NO EX.	(38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	(62-63) UNITS	(62-63) NO EX.		
FLOW	REPORTED	0.430	0.673	1.232	10 ⁶	0						4/30	24 HOUR
	PERMIT CONDITION				Gallons							1/30	24 HOUR
pH (00440)	REPORTED						7.4	7.4	7.4		0	1/30	GRAB
	PERMIT CONDITION						6		9			1/30	GRAB
TEMPERATURE (00010)	REPORTED						74	74	74		0	1/30	GRAB
	PERMIT CONDITION									°F		1/30	GRAB
POLYCHLORINATED BIPHENYLS	REPORTED						<0.0005	<0.0005	<0.0005		0	1/7	24 HOUR
	PERMIT CONDITION								0.005	mg/l		1/7	24 HOUR
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER			DATE			I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate	 SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT
POOLE,	GLENN	E.	PLANT MANAGER			9 | 7	0 | 7	2 | 8		
LAST	FIRST	MI	TITLE			YEAR	MO	DAY		

IL532-0092
WPC 242 11/79

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 ½, Section 1042. Disclosure of this information is required. Failure to do so may result in a civil penalty up to \$10,000.00 per day of violation or a fine up to \$25,000.00 per day of violation and imprisonment up to one year. This form has been approved by the Forms Management Center

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION

COMMENTS

ADDRESS: 100 SEA-HORSE DRIVE
WAUKEGAN, IL 60085 ATTN: ANTHONY MONTEMURRO* DUE TO THE INSTALLATION OF A CLOSED LOOP COOLING SYSTEM IN
DECEMBER 1993, DISCHARGE FROM THIS OUTFALL HAS BEEN ELIMINAT

PHONE: (847)689-5363

(2-3) IL	(4-16) 0002267	(17-19) 006	3519	42° 21' 51"	87° 49' 17"
ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE

REPORTING PERIOD FROM			TO		
(20-21) 9 | 7	(22-23) 0 | 6	(24-25) 0 | 1	(26-27) 9 | 7	(28-29) 0 | 7	(30-31) 0 | 1
YEAR	MO	DAY	YEAR	MO	DAY

PARAMETER		QUANTITY				UNITS	NO EX.	CONCENTRATION				NO EX.	FREQUENCY OF ANALYSIS	SAV TY
		(38-34) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	(62-62) NO EX.			(38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	(62-63) NO EX.			
FLOW	REPORTED	*	*	*	10 ⁶		*	*	*				24 H	
	PERMIT CONDITION				Gallons							1/7	24 H	
pH (00440)	REPORTED						*	*	*				GR	
	PERMIT CONDITION						6		9			1/30	GR	
TEMPERATURE (00010)	REPORTED						*	*	*				Gr	
	PERMIT CONDITION											1/30	Gr	
OIL & GREASE (00550)	REPORTED						*	*	*				Gr	
	PERMIT CONDITION							15	30	mg/l		1/30	Gr	
POLYCHLORINATED BIPHENYLS	REPORTED						*	*	*				24 H	
	PERMIT CONDITION								0.005	mg/l		1/7	24 H	
	REPORTED													
	PERMIT CONDITION													
	REPORTED													
	PERMIT CONDITION													
	REPORTED													
	PERMIT CONDITION													
NAME OF PRINCIPAL EXECUTIVE OFFICER		TITLE OF THE OFFICER		DATE		I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate				SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT				
POOLE, GLENN E. LAST FIRST MI		PLANT MANAGER TITLE		9 | 7 0 | 7 2 | 8 YEAR MO DAY										

IL 532 0092
WPC 242 11/79This Agency is authorized to require this information under Illinois Revised
Statutes, 1979 Chapter 111 1/2, Section 1042. Disclosure of this information
is required. Failure to do so may result in a civil penalty up to \$10,000.00 per
day of violation or a fine up to \$25,000.00 per day of violation and imprison-
ment up to one year. This form has been approved by the Forms Management Center

PAGE 2 OF 8

044-020

PERMITTEE NAME: **OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION**

ADDRESS: **100 SEA-HORSE DRIVE
WAUKEGAN, IL 60085** **ATTN: ANTHONY MONTEMURRO**

PHONE: **(847)689-5363**

(2-3) IL	(4-18) 0002267	(17-19) 007	3519	42° 22' 6"	87° 48' 54"
ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE

(20-21) 9	(22-23) 7	(24-25) 0	(26-27) 9	(28-29) 7	(30-31) 0
YEAR	MO	DAY	YEAR	MO	DAY

REPORTING PERIOD FROM TO

PARAMETER		QUANTITY					CONCENTRATION					FREQUENCY OF ANALYSIS	SAMPLING TYPE
		3 card only			UNITS	NO EX.	4 card only			NO EX.			
		(38-39) MINIMUM	(40-53) AVERAGE	(54-61) MAXIMUM			(38-39) MINIMUM	(40-53) AVERAGE	(54-61) MAXIMUM				
FLOW	REPORTED	0.011	0.038	0.120	10 ⁶	0						2/7	24 h
	PERMIT CONDITION				Gallons							2/7	24 h
pH (00440)	REPORTED						7.2	7.2	7.2		0	1/30	GI
	PERMIT CONDITION						6		9			1/30	GI
TEMPERATURE (00010)	REPORTED						80.0	80.0	80.0		0	1/30	GI
	PERMIT CONDITION									°F		1/30	G
POLYCHLORINATED BIPHENYLS	REPORTED						<0.0005	0.0005	0.0008		0	2/7	24
	PERMIT CONDITION							0.001	0.005	mg/l		2/7	24
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER		DATE			I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate		SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT
POOLE, LAST	GLENN FIRST	E. MI	PLANT MANAGER		0	6	0	7	2		8
			TITLE		YEAR MO DAY					

IL532-0092
WPC 242 11/79

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 10-42. Disclosure of this information is required. Failure to do so may result in a civil penalty up to \$10,000.00 per day of violation or a fine up to \$25,000.00 per day of violation and imprisonment up to one year. This form has been approved by the Forms Management Center.

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME:

OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION

COMMENTS

ADDRESS:

100 SEA-HORSE DRIVE
WAUKEGAN, IL 60085

ATTN: ANTHONY MONTEMURRO

PHONE:

(847)689-5363

(2-3)	(4-16)	(17-19)			
IL	0002267	008	3519	42° 22' 4"	87° 49' 14"
ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE

(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)
9	7	0	6	0	1	
YEAR	MO	DAY		YEAR	MO	DAY

REPORTING PERIOD FROM

TO

(32-37)		QUANTITY					CONCENTRATION					(64-68)	(69)
PARAMETER		(38-39)	(40-43)	(44-47)	UNITS	(62-63)	(38-45)	(46-53)	(54-61)	(62-63)	FREQUENCY OF ANALYSIS	SAFETY	
FLOW	REPORTED	0.133	0.287	0.528	10 ⁶	0					2/7	24 h	
	PERMIT CONDITION				Gallons						2/7	24 h	
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
NAME OF PRINCIPAL EXECUTIVE OFFICER		TITLE OF THE OFFICER			DATE		I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate				SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT		
POOLE,	GLENN	E.	PLANT MANAGER		9	7							
LAST	FIRST	MI	TITLE		YEAR	MO	DAY						

IL 532-0092
WFC 242 11/79

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DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME:

OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION

COMMENTS

ADDRESS:

100 SEA-HORSE DRIVE
WAUKEGAN, IL 60085

ATTN: ANTHONY MONTEMURRO

STORM WATER DISCHARGES FROM THIS OUTFALL HAVE BEEN DIRECTED
TO THE STORM WATER RETENTION POND. THE POND DISCHARGE HAS BEEN
DESIGNATED TO OUTFALL 017.

PHONE:

(847)689-5363

(2-3) IL	(4-16) 0002267	(17-19) 014	3519	42° 22' 15"	87° 49' 18"
ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE

REPORTING PERIOD FROM

(20-21) 9 | 7	(22-23) 0 | 6	(24-25) 0 | 1
YEAR	MO	DAY

TO

(26-27) 9 | 7	(28-29) 0 | 7	(30-31) 9 | 7
YEAR	MO	DAY

PARAMETER		QUANTITY					CONCENTRATION					FREQUENCY OF ANALYSIS	SAMPLE TYPE	
		(38-39) MINIMUM	(40-53) AVERAGE	(54-61) MAXIMUM	(62-63) UNITS	(64-65) NO EX.	(38-39) MINIMUM	(40-53) AVERAGE	(54-61) MAXIMUM	(62-63) UNITS	(64-65) NO EX.			
FLOW	REPORTED	NO FLOW AT THIS OUTFALL.					10 ⁶							24 hr
	PERMIT CONDITION						Gallons							24 hr
pH (00440)	REPORTED													GI
	PERMIT CONDITION							6		9			1/30	GI
TEMPERATURE (00010)	REPORTED													GI
	PERMIT CONDITION										°F		1/30	GI
POLYCHLORINATED BIPHENYLS	REPORTED													24 hr
	PERMIT CONDITION							0.001		0.005	mg/l		2/7	24 hr
	REPORTED													
	PERMIT CONDITION													
	REPORTED													
	PERMIT CONDITION													
	REPORTED													
	PERMIT CONDITION													
	REPORTED													
	PERMIT CONDITION													

NAME OF PRINCIPAL EXECUTIVE OFFICER

TITLE OF THE OFFICER

DATE

I certify that I am familiar with the information contained
in this report and that to the best of my knowledge and
belief such information is true, complete, and accuratePOOLE, GLENN E.
LAST FIRST MIPLANT MANAGER
TITLE9 | 7 | 0 | 7 | 2 | 8
YEAR MO DAYSIGNATURE OF PRINCIPLE EXECUT
OFFICER OR AUTHORIZED AGENTIL 532-0092
WPC 242 11/79This Agency is authorized to require this information under Illinois Revised
Statutes, 1979, Chapter 111 1/2, Section 10-42. Disclosure of this information
is required. Failure to do so may result in a civil penalty up to \$10,000.00 per
day of violation or a fine up to \$25,000.00 per day of violation and imprison-
ment up to one year. This form has been approved by the Forms Management Center

PAGE 5 OF 8

044 020

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME:

OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION

COMMENTS

ADDRESS:

100 SEA-HORSE DRIVE
WAUKEGAN, IL 60085

ATTN: ANTHONY MONTEMURRO

PHONE:

(847)689-5363

* SAMPLES REQUIRED FOR EACH PRECIPITATION EVENT GREATER THAN
0.3 INCHES IN A 24 HOUR PERIODSTORM WATER DISCHARGES FROM THIS OUTFALL HAVE BEEN DIRECTED
TO THE STORM WATER RETENTION POND. THE POND DISCHARGE HAS
BEEN DESIGNATED OUTFALL 017.

(2-3) IL	(4-16) 0002267	(17-19) 015	3519	42° 22' 19"	87° 48' 59"
ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE

REPORTING PERIOD FROM			TO		
(20-21) 9 | 7	(22-23) 0 | 6	(24-25) 0 | 1	(26-27) 9 | 7	(28-29) 0 | 7	(30-31) 0 | 1
YEAR	MO	DAY	YEAR	MO	DAY

PARAMETER		QUANTITY			UNITS	NO EX	CONCENTRATION			UNITS	NO EX	FREQUENCY OF ANALYSIS	SAMPLING TYPE
		(38-34) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM			(38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM				
FLOW	REPORTED	NO FLOW AT THIS OUTFALL.			10 ⁶								Calcu
	PERMIT CONDITION				Gallons							*30	Calcu
pH (00440)	REPORTED												Gr
	PERMIT CONDITION						6		9			*30	Gr
TOTAL SUSPENDED SOLIDS	REPORTED												Storm C
	PERMIT CONDITION								30			*30	Storm C
POLYCHLORINATED BIPHENYLS	REPORTED												Storm C
	PERMIT CONDITION								0.005			*30	Storm C
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
NAME OF PRINCIPAL EXECUTIVE OFFICER		TITLE OF THE OFFICER			DATE			I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate			SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT		
POOLE, GLENN E. LAST FIRST MI		PLANT MANAGER TITLE			9 | 7 | 0 | 7 | 2 | 8 YEAR MO DAY								

IL532-0092
WPC 242 11/79This Agency is authorized to require this information under Illinois Revised
Statutes, 1979, Chapter 111 1/2, Section 10-42. Disclosure of this information
is required. Failure to do so may result in a civil penalty up to \$10,000.00 per
day of violation or a fine up to \$25,000.00 per day of violation and imprison-
ment up to one year. This form has been approved by the Forms Management Center

PAGE 6 OF 8

044-020

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION

COMMENTS

ADDRESS: 100 SEA-HORSE DRIVE
WAUKEGAN, IL 60085

ATTN: ANTHONY MONTEMURRO

PHONE: (847)689-5363

* SAMPLES REQUIRED FOR EACH PRECIPITATION EVENT GREATER THAN
0.3 INCHES IN A 24 HOUR PERIODSTORM WATER DISCHARGES FROM THIS OUTFALL HAVE BEEN DIRECTED
TO THE STORM WATER RETENTION POND. THE POND DISCHARGE HAS
BEEN DESIGNATED OUTFALL 017.

(2-3) IL	(4-16) 0002267	(17-19) 016	3519	42° 22' 19"	87° 49' 15"
ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE

(20-21) 9 | 7	(22-23) 0 | 6	(24-25) 0 | 1	TO	(26-27) 9 | 7	(28-29) 0 | 7	(30-31) 0 | 1
YEAR	MO	DAY		YEAR	MO	DAY

PARAMETER		QUANTITY					CONCENTRATION					FREQUENCY OF ANALYSIS	SAI T	
		3 card only			UNITS	NO EX.	4 card only			UNITS	NO EX.			
		(38-39) MINIMUM	(40-43) AVERAGE	(44-47) MAXIMUM			(38-39) MINIMUM	(40-43) AVERAGE	(44-47) MAXIMUM					
FLOW	REPORTED	NO FLOW AT THIS OUTFALL.					10 ⁶							Calci
	PERMIT CONDITION					Gallons								Calci
pH (00440)	REPORTED													G
	PERMIT CONDITION						6			9				G
TOTAL SUSPENDED SOLIDS	REPORTED													Storm C
	PERMIT CONDITION									30				Storm C
POLYCHLORINATED BIPHENYLS	REPORTED													Storm C
	PERMIT CONDITION									0.005				Storm C
	REPORTED													
	PERMIT CONDITION													
	REPORTED													
	PERMIT CONDITION													
	REPORTED													
	PERMIT CONDITION													
	REPORTED													
	PERMIT CONDITION													

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER			DATE			I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate			SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT		
POOLE, LAST	GLENN FIRST	E. MI	PLANT MANAGER TITLE	9 | 7 YEAR	0 | 7 MO	2 | 8 DAY								

IL 532-0092
WPC 242 11/79This Agency is authorized to require this information under Illinois Revised
Statutes, 1979 Chapter 111 1/2 Section 10-42. Disclosure of this information
is required. Failure to do so may result in a civil penalty up to \$10,000.00 per
day of violation or a fine up to \$25,000.00 per day of violation and imprison-
ment up to one year. This form has been approved by the Forms Management Center.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: **OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION**

COMMENTS

ADDRESS: **100 SEA-HORSE DRIVE
WAUKEGAN, IL 60085 ATTN: ANTHONY MONTEMURRO**

* SAMPLES REQUIRED FOR EACH PRECIPITATION EVENT GREATER THAN
0.3 INCHES IN A 24 HOUR PERIOD

PHONE: **(847)689-5363**

**THIS DISCHARGE IS FROM THE STORM RETENTION POND, CONSTRUCTED AS
TO IN THE CONSENT DECREE ENTERED IN NRDC V. OMC,
N.D. ILL. 87 C 4648**

** No precipitation events exceeding 0.3" in 24 hour period during this reporting p

(2-3) IL	(4-16) 0002267	(17-19) 017	3519	42° 22' 19"	87° 49' 15"
ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE

REPORTING PERIOD FROM			TO			
(20-21) 9 | 7	(22-23) 0 | 6	(24-25) 0 | 1		(26-27) 9 | 7	(28-29) 0 | 7	(30-31) 0 | 1
YEAR	MO	DAY		YEAR	MO	DAY

(32-37) PARAMETER		QUANTITY					CONCENTRATION					(64-68) FREQUENCY OF ANALYSIS	(69) SA T
		(38-34) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	(62-64) UNITS	(62-64) NO EX.	(38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	(62-64) UNITS	(62-64) NO EX.		
FLOW	REPORTED	..	..	..	10 ⁴								Calc
	PERMIT CONDITION				Gallons							*/30	Calc
pH	REPORTED						..	..	..	
	PERMIT CONDITION						6		9			*/30	
TOTAL SUSPENDED SOLIDS	REPORTED						..	..	..				Storm
	PERMIT CONDITION									mg/l		*/30	Storm
POLYCHLORINATED BIPHENYLS	REPORTED						..	..	..				Storm
	PERMIT CONDITION									mg/l		*/30	Storm
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER			DATE		
POOLE,	GLENN	E	PLANT MANAGER	9	7	0	7	2
LAST	FIRST	MI	TITLE	YEAR	MO	DAY	MO	DAY

I certify that I am familiar with the information contained
in this report and that to the best of my knowledge and
belief such information is true, complete and accurate

Glenn E. Poole
SIGNATURE OF PRINCIPLE EXECU
OFFICER OR AUTHORIZED AGE



OUTBOARD MARINE CORPORATION

100 Sea Horse Drive
Waukegan, Illinois 60085-2195
Phone 847/689-6200

August 28, 1997

Mr. Dan Ray
Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
2200 Churchill Road
Springfield, IL 62794-9276

Re: Discharge Monitoring Report - July 1997
NPDES Permit No. IL 0002267

Dear Mr. Ray:

Enclosed is the, July 1997 Discharge Monitoring Report for the OMC Waukegan facility.

If you have any questions regarding this matter, I can be contacted at 847 / 689-5363.

Sincerely,

A handwritten signature in cursive script, reading "Anthony M. Montemurro". The signature is written in dark ink and is positioned above the printed name and title of the signatory.

Anthony M. Montemurro, CHMM
Environmental Control Specialist
OMC Waukegan

encl.

cc: L. Keller
B. Kuester
J. Moran

dray240.97

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION

COMMENTS

ADDRESS: 100 SEA HORSE DRIVE
WAUKEGAN, IL 60085 ATTN: ANTHONY MONTEMURRO

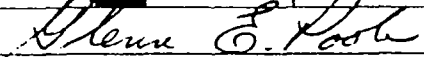
PHONE: (847)689-5363

(2-3) IL	(4-16) 0002267	(17-19) 001	3519	42° 21' 48"	87° 49' 18"
ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE

(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)
9	7	0	7	0	1	1
YEAR	MO	DAY		YEAR	MO	DAY

REPORTING PERIOD FROM TO

(32-37)		QUANTITY					CONCENTRATION					(64-66)		(68-70)	
PARAMETER		3 card only			UNITS	(62-63) NO EX.	4 card only			UNITS	(62-63) NO EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE		
		(38-39) MINIMUM	(40-53) AVERAGE	(54-61) MAXIMUM			(38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM						
FLOW	REPORTED	0.779	1.093	1.540	10 ³	0						4/30	24 HOUR		
	PERMIT CONDITION				Gallons							1/30	24 HOUR		
pH (00440)	REPORTED						7.2	7.2	7.2		0	1/30	GRAB		
	PERMIT CONDITION						6		9			1/30	GRAB		
TEMPERATURE (00010)	REPORTED						75	75	75		0	1/30	GRAB		
	PERMIT CONDITION									F		1/30	GRAB		
POLYCHLORINATED BIPHENYLS	REPORTED						<0.0005	<0.0005	<0.0005		0	1/7	24 HOUR		
	PERMIT CONDITION								0.005	mg/l		1/7	24 HOUR		
	REPORTED														
	PERMIT CONDITION														
	REPORTED														
	PERMIT CONDITION														
	REPORTED														
	PERMIT CONDITION														
	REPORTED														
	PERMIT CONDITION														

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER		DATE		I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate		
POOLE, GLENN E.	PLANT MANAGER	9	7	0	8	2			7
LAST FIRST MI	TITLE	YEAR	MO	DAY					

IL532-0092
WPC 242 11/79

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1042. Disclosure of this information is required. Failure to do so may result in a civil penalty up to \$10,000.00 per day of violation or a fine up to \$25,000.00 per day of violation and imprisonment up to one year. This form has been approved by the Forms Management Center.

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT
PAGE 1 OF 8

IEPA - Region II

DISCHARGE MONITORING REPORT

PERMITTEE NAME: OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION

COMMENTS

ADDRESS: 100 SEA-HORSE DRIVE
WAUKEGAN, IL 60085

ATTN: ANTHONY MONTEMURRO

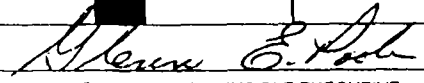
* DUE TO THE INSTALLATION OF A CLOSED LOOP COOLING SYSTEM IN
DECEMBER 1993, DISCHARGE FROM THIS OUTFALL HAS BEEN ELIMINATED.

PHONE: (847)689-5363

(2-3) IL	(4-16) 0002267	(17-19) 006	3519	42° 21' 51"	87° 49' 17"
ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE

(20-21) 9 | 7	(22-23) 0 | 7	(24-25) 0 | 1	TO	(26-27) 9 | 7	(28-29) 0 | 8	(30-31) 0 | 1
YEAR	MO	DAY		YEAR	MO	DAY

PARAMETER		QUANTITY					CONCENTRATION					FREQUENCY OF ANALYSIS	SAMPLE TYPE
		3 card only			UNITS	NO EX.	4 card only			UNITS	NO EX.		
		(38-34) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM			(38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM				
FLOW	REPORTED	*	*	*	10 ⁶		*	*	*				24 HOUR
	PERMIT CONDITION				Gallons							1/7	24 HOUR
pH (00440)	REPORTED						*	*	*				GRAB
	PERMIT CONDITION						6		9			1/30	GRAB
TEMPERATURE (00010)	REPORTED						*	*	*				GRAB
	PERMIT CONDITION										°F	1/30	GRAB
OIL & GREASE (00550)	REPORTED						*	*	*				GRAB
	PERMIT CONDITION							15	30		mg/l	1/30	GRAB
POLYCHLORINATED BIPHENYLS	REPORTED						*	*	*				24 HOUR
	PERMIT CONDITION								0.005		mg/l	1/7	24 HOUR
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER			DATE			I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate	 SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT
POOLE,	GLENN	E.	PLANT MANAGER			9	7	0		
LAST	FIRST	MI	TITLE			YEAR	MO	DAY		

IL532-0092
WPC 242 11/79

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PAGE 2 OF 8

044-020

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME:

OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION

COMMENTS

ADDRESS:

100 SEA-HORSE DRIVE
WAUKEGAN, IL 60085

ATTN: ANTHONY MONTEMURRO

*Due to flow meter malfunctions, flow data for this discharge have been estimated

PHONE:

(847)689-5363

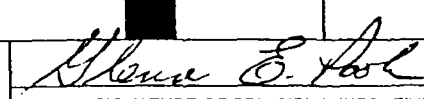
(2-3) IL	(4-16) 0002267	(17-19) 007	3519	42° 22' 6"	87° 48' 54"
ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE

(20-21)			(22-23)			(24-25)			(26-27)			(28-29)			(30-31)		
9	7	0	7	0	1	9	7	0	8	0	1	9	7	0	8	0	1
YEAR			MO			DAY			YEAR			MO			DAY		

REPORTING PERIOD FROM

TO

(32-37) PARAMETER		QUANTITY					CONCENTRATION					(64-68) FREQUENCY OF ANALYSIS	(69-70) SAMPLE TYPE
		3 card only				4 card only							
		(38-39)	(40-41)	(42-43)	(44-45)	(46-47)	(48-49)	(50-51)	(52-53)	(54-55)	(56-57)	(58-59)	(60-61)
		MINIMUM	AVERAGE	MAXIMUM	UNITS	NO EX.	MINIMUM	AVERAGE	MAXIMUM	UNITS	NO EX.		
FLOW	REPORTED	0.336*	0.336*	0.336*	10 ⁶	0						2/7	24 HOUR
	PERMIT CONDITION				Gallons							2/7	24 HOUR
pH (00440)	REPORTED						6.9	6.9	6.9		0	1/30	GRAB
	PERMIT CONDITION						6		9			1/30	GRAB
TEMPERATURE (00010)	REPORTED						95.0	95.0	95.0		0	1/30	GRAB
	PERMIT CONDITION									F		1/30	GRAB
POLYCHLORINATED BIPHENYLS	REPORTED						<0.0005	0.0004	0.0012		0	2/7	24 HOUR
	PERMIT CONDITION							0.001	0.005	mg/l		2/7	24 HOUR
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER			DATE			I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate			 SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT		
POOLE, GLENN E.	PLANT MANAGER	0 6 0 8 2 7												
LAST FIRST MI	TITLE	YEAR MO DAY												

IL 532-0092
WPC 242 11/79

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PAGE 3 OF 8

044-020

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION

COMMENTS

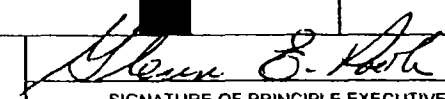
ADDRESS: 100 SEA-HORSE DRIVE
WAUKEGAN, IL 60085 ATTN: ANTHONY MONTEMURRO

PHONE: (847)689-5363

(2-3) IL ST	(4-16) 0002267 PERMIT NUMBER	(17-19) 008 DIS	3519 SIC	42° 22' 4" LATITUDE	87° 49' 14" LONGITUDE
-------------------	------------------------------------	-----------------------	-------------	------------------------	--------------------------

REPORTING PERIOD FROM			TO		
(20-21) 9 | 7 YEAR	(22-23) 0 | 7 MO	(24-25) 0 | 1 DAY	(26-27) 9 | 7 YEAR	(28-29) 0 | 8 MO	(30-31) 0 | 1 DAY

(32-37) PARAMETER		3 card only QUANTITY					4 card only CONCENTRATION					(64-68) FREQUENCY OF ANALYSIS	(69-70) SAMPLE TYPE
		(38-39) MINIMUM	(40-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-63) NO EX.	(38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-63) NO EX.		
FLOW	REPORTED	0.225	0.065	0.336		10 ⁴	0						
	PERMIT CONDITION				Gallons							2/7	24 HOUR
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER		DATE		I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate	 SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT
POOLE,	GLENN	E.	PLANT MANAGER		9 7 0 8 2 7			
LAST	FIRST	MI	TITLE		YEAR	MO	DAY	

IL532-0092
WPC 242 11/79

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PAGE 4 OF 8

044-020

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION

COMMENTS

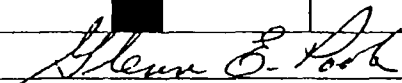
ADDRESS: 100 SEA HORSE DRIVE
WAUKEGAN, IL 60085 ATTN: ANTHONY MONTEMURROSTORM WATER DISCHARGES FROM THIS OUTFALL HAVE BEEN DIRECTED TO
THE STORM WATER RETENTION POND. THE POND DISCHARGE HAS BEEN
DESIGNATED TO OUTFALL 017.

PHONE: (847)689-5363

(2-3) IL	(4-16) 0002267	(17-19) 014	3510	42° 22' 15"	87° 49' 18"
ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE

(20-21) 9 | 7	(22-23) 0 | 7	(24-25) 0 | 1	TO	(26-27) 9 | 7	(28-29) 0 | 8	(30-31) 9 | 7
YEAR	MO	DAY		YEAR	MO	DAY

(32-37) PARAMETER		3 card only QUANTITY					4 card only CONCENTRATION					(64-68) FREQUENCY OF ANALYSIS	(66-70) SAMPLE TYPE	
		(38-41)			(42-43) UNITS	(62-63) NO EX.	(44-47)			(64-65) UNITS	(66-67) NO EX.			
		(38-39) MINIMUM	(40-41) AVERAGE	(42-43) MAXIMUM			(44-45) MINIMUM	(46-47) AVERAGE	(48-49) MAXIMUM					
FLOW	REPORTED	NO FLOW AT THIS OUTFALL.			10 ⁶									24 HOUR
	PERMIT CONDITION				Gallons								2/7	24 HOUR
pH (00440)	REPORTED													GRAB
	PERMIT CONDITION					6			9				1/30	GRAB
TEMPERATURE (00010)	REPORTED													GRAB
	PERMIT CONDITION								F				1/30	GRAB
POLYCHLORINATED BIPHENYLS	REPORTED													24 HOUR
	PERMIT CONDITION							0.001	0.005	mg/l			2/7	24 HOUR
	REPORTED													
	PERMIT CONDITION													
	REPORTED													
	PERMIT CONDITION													
	REPORTED													
	PERMIT CONDITION													
	REPORTED													
	PERMIT CONDITION													
	REPORTED													
	PERMIT CONDITION													

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER			DATE			I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate	 SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT
POOLE, LAST	GLENN FIRST	E. MI	PLANT MANAGER			9 | 7	0 | 8	2 | 7		
			TITLE			YEAR	MO	DAY		

IL532-0082
WPC 242 11/79This Agency is authorized to require this information under Illinois Revised
Statutes, 1979, Chapter 111 1/2, Section 1042. Disclosure of this information
is required. Failure to do so may result in a civil penalty up to \$10,000.00 per
day of violation or a fine up to \$25,000.00 per day of violation and imprison-
ment up to one year. This form has been approved by the Forms Management Center.

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION

COMMENTS

ADDRESS: 100 SEA-HORSE DRIVE
WAUKEGAN, IL 60085 ATTN: ANTHONY MONTEMURRO

PHONE: (847)689-5363

* SAMPLES REQUIRED FOR EACH PRECIPITATION EVENT GREATER THAN
0.3 INCHES IN A 24 HOUR PERIODSTORM WATER DISCHARGES FROM THIS OUTFALL HAVE BEEN DIRECTED TO
THE STORM WATER RETENTION POND. THE POND DISCHARGE HAS
BEEN DESIGNATED OUTFALL 017.

(2-3) IL	(4-16) 0002267	(17-19) 015	3519	42° 22' 19"	87° 48' 59"
ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE

(20-21) 9 | 7	(22-23) 0 | 7	(24-25) 0 | 1	TO	(26-27) 9 | 7	(28-29) 0 | 8	(30-31) 0 | 1
YEAR	MO	DAY		YEAR	MO	DAY

PARAMETER		QUANTITY				UNITS	CONCENTRATION				FREQUENCY OF ANALYSIS	SAMPLE TYPE
		3 card only			NO EX.		4 card only			NO EX.		
		(38-34) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM			(38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM			
FLOW	REPORTED	NO FLOW AT THIS OUTFALL.			10 ⁶							Calculation
	PERMIT CONDITION				Gallons							Calculation
pH (00440)	REPORTED											Grab
	PERMIT CONDITION					6			9			Grab
TOTAL SUSPENDED SOLIDS	REPORTED											Storm Compositi
	PERMIT CONDITION								30			Storm Compositi
POLYCHLORINATED BIPHENYLS	REPORTED											Storm Compositi
	PERMIT CONDITION								0.005			Storm Compositi
	REPORTED											
	PERMIT CONDITION											
	REPORTED											
	PERMIT CONDITION											
	REPORTED											
	PERMIT CONDITION											
	REPORTED											
	PERMIT CONDITION											

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER			DATE			I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT
POOLE, GLENN E.			PLANT MANAGER			9 7 0 8 2 7				
LAST FIRST MI			TITLE			YEAR MO DAY				

IL532-0092
WPC 242 11/79

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PAGE 6 OF 8

044-020

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION

COMMENTS

ADDRESS: 100 SEA HORSE DRIVE
WAUKEGAN, IL 60085 ATTN: ANTHONY MONTEMURRO

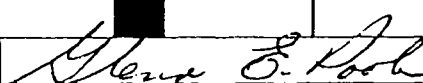
PHONE: (847)689-5363

* SAMPLES REQUIRED FOR EACH PRECIPITATION EVENT GREATER THAN
0.3 INCHES IN A 24 HOUR PERIODSTORM WATER DISCHARGES FROM THIS OUTFALL HAVE BEEN DIRECTED TO
THE STORM WATER RETENTION POND. THE POND DISCHARGE HAS
BEEN DESIGNATED OUTFALL 017.

(2-3) IL	(4-16) 0002267	(17-19) 016	3519	42° 22' 19"	87° 49' 15"
ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE

(20-21) 9 | 7	(22-23) 0 | 7	(24-25) 0 | 1	TO	(26-27) 9 | 7	(28-29) 0 | 8	(30-31) 0 | 1
YEAR	MO	DAY		YEAR	MO	DAY

PARAMETER		QUANTITY					CONCENTRATION					FREQUENCY OF ANALYSIS	SAMPLE TYPE	
		3 card only				NO EX.	4 card only				NO EX.			
		(38-34) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS		(38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS				
FLOW	REPORTED	NO FLOW AT THIS OUTFALL.				10 ⁶								Calculation
	PERMIT CONDITION					Gallons								Calculation
pH (00440)	REPORTED													Grab
	PERMIT CONDITION						6			9				Grab
TOTAL SUSPENDED SOLIDS	REPORTED													Storm Composite
	PERMIT CONDITION									30		mg/l		Storm Composite
POLYCHLORINATED BIPHENYLS	REPORTED													Storm Composite
	PERMIT CONDITION									0.005		mg/l		Storm Composite
	REPORTED													
	PERMIT CONDITION													
	REPORTED													
	PERMIT CONDITION													
	REPORTED													
	PERMIT CONDITION													
	REPORTED													
	PERMIT CONDITION													

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER		DATE		I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete and accurate	 SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT
POOLE,	GLENN	E.	PLANT MANAGER		9 | 7	0 | 8		
LAST	FIRST	MI	TITLE		YEAR	MO		

IL 532-0092
WPC 242 11/79This Agency is authorized to require this information under Illinois Revised
Statutes, 1979, Chapter 111 1/2, Section 1042. Disclosure of this information
is required. Failure to do so may result in a civil penalty up to \$10,000.00 per
day of violation or a fine up to \$25,000.00 per day of violation and imprison-
ment up to one year. This form has been approved by the Forms Management Center.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: **OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION**

ADDRESS: **100 SEA-HORSE DRIVE
WAUKEGAN, IL 60085** **ATTN: ANTHONY MONTEMURRO**

PHONE: **(847)689-5363**

COMMENTS

* SAMPLES REQUIRED FOR EACH PRECIPITATION EVENT GREATER THAN
0.3 INCHES IN A 24 HOUR PERIOD

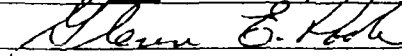
THIS DISCHARGE IS FROM THE STORM RETENTION POND, CONSTRUCTED AS AGREED
TO IN THE CONSENT DECREE ENTERED IN NRDC V. OMC,
N.D. ILL. 87 C 4648

**Analysis for this parameter not conducted due to insufficient sample volume

(2-3) IL	(4-16) 0002267	(17-19) 017	3519	42° 22' 19"	87° 49' 15"
ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE

REPORTING PERIOD FROM			TO		
(20-21) 9	(22-23) 7	(24-25) 0	(26-27) 9	(28-29) 0	(30-31) 1
YEAR	MO	DAY	YEAR	MO	DAY

(32-37)		QUANTITY				CONCENTRATION						(64-66)	(68-70)
PARAMETER		3 card only			UNITS	(62-62) NO EX.	4 card only			UNITS	(62-63) NO EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		(38-34) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM			(38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM				
FLOW	REPORTED	0.184	0.184	0.184	10 ⁶						0	1/30	Calculation
	PERMIT CONDITION				Gallons							*/30	Calculation
pH (00440)	REPORTED						**	**	**			0/30	Grab
	PERMIT CONDITION						6		9			*/30	Grab
TOTAL SUSPENDED SOLIDS	REPORTED						**	**	**			0/30	Storm Composite
	PERMIT CONDITION									mg/l		*/30	Storm Composite
POLYCHLORINATED BIPHENYLS	REPORTED						<0.0005	<0.0005	<0.0005		0	1/30	Storm Composite
	PERMIT CONDITION									mg/l		*/30	Storm Composite
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER			DATE			I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate			 SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT		
POOLE, GLENN E.	PLANT MANAGER	9 7 0 8 2 7												
LAST FIRST MI	TITLE	YEAR MO DAY												

ATTACHMENT 2
CATEGORY 5 TREATMENT PLANT
ANALYTICAL RESULTS

KEMRON Environmental Services
109 Starlite Park
Marietta, Ohio 45750

Phone: (614) 373-4071

Outboard Marine Corporation
190 Seahorse Drive
Waukegan, IL 60085

Attn: Tricia Sutton


Login #: 97-06-456
Date Received: 06/20/97
Date Completed: 07/03/97
Date Reported: 07/03/97 10:32
Work ID: OMC WAUKEGAN

Client Code: OUTBOARD-379

SAMPLE IDENTIFICATION

Sample Number	Sample Description	Sample Number	Sample Description
01	WT5I-R5	02	WT5I-R6
03	WT5E	04	WT5LC

All results for soils/sludges are reported on a dry weight basis, where applicable, unless otherwise specified. This report shall not be reproduced, except in full, without the prior written approval of KEMRON.


Certified by
David L. Bumgarner

RECEIVED

JUL 10 1997

OMC ENVIRONMENTAL
AFFAIRS DEPT

Order # 97-06-456
July 3, 1997 10:33

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Page 2

Test Code: **808-PCB-W**
Sample Description: **WT5I-R5**
Test Description: **PCB's (Water)**

Lab No: **01**

Collected: **06/19/97 1030**
Category: **Water**
Method: **8081\3510**

Analyst: **MLS**
Instrument: **HP10**

Extracted: **06/26/97**
Injected: **06/30/97**

File: **013F0101**
Factor: **1**

Units: **ug/L**

CAS#	COMPOUND	RESULT	REPORTING LIMIT
12674-11-2	Aroclor-1016	ND	0.5
11104-28-2	Aroclor-1221	ND	0.5
11141-16-5	Aroclor-1232	ND	0.5
53469-21-9	Aroclor-1242	ND	0.5
12672-29-6	Aroclor-1248	4	0.5
11097-69-1	Aroclor-1254	ND	1
11096-82-5	Aroclor-1260	ND	1

SURROGATES:

Decachlorobiphenyl	<u>83.8</u> % Recovery (25% - 140%)
2,4,5,6-Tetrachloro-m-xylene	<u>77.6</u> % Recovery (13% - 154%)

NOTES AND DEFINITIONS FOR THIS SAMPLE:

ND = Not detected at or above the reporting limit

Order # 97-06-342
June 27, 1997 15:56

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Page 3

Test Code: **808-PCB-W**
Sample Description: **WT5-ID**
Test Description: **PCB's (Water)**

Lab No: **02**

Collected: **06/13/97 910**
Category: **Water**
Method: **8081\3510**

Analyst: **MLS**
Instrument: **HP10**

Extracted: **06/20/97**
Injected: **06/25/97**

File: **015R0101**
Factor: **1**

Units: **ug/L**

CAS#	COMPOUND	RESULT	REPORTING LIMIT
12574-11-2	Aroclor-1016	ND	0.5
11104-28-2	Aroclor-1221	ND	0.5
11141-16-5	Aroclor-1232	ND	0.5
53469-21-9	Aroclor-1242	ND	0.5
12672-29-6	Aroclor-1248	2.18	0.5
11097-69-1	Aroclor-1254	ND	1
11096-82-5	Aroclor-1260	ND	1

SURROGATES:

Decachlorobiphenyl	<u>86.2</u> % Recovery (25% - 140%)
2,4,5,6-Tetrachloro-m-xylene	<u>51</u> % Recovery (13% - 154%)

NOTES AND DEFINITIONS FOR THIS SAMPLE:

ND = Not detected at or above the reporting limit

Order # 97-06-342
June 27, 1997 15:56

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

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Test Code: **808-PCB-W**
Sample Description: **WT5-E**
Test Description: **PCB's (Water)**

Lab No: **03**

Collected: **06/13/97 910**
Category: **Water**
Method: **8081\3510**

Analyst: **MLS**
Instrument: **HP10**

Extracted: **06/20/97**
Injected: **06/25/97**

File: **016R0101**
Factor: **1**

Units: **ug/L**

CAS#	COMPOUND	RESULT	REPORTING LIMIT
12674-11-2	Aroclor-1016	ND	0.5
11104-28-2	Aroclor-1221	ND	0.5
11141-16-5	Aroclor-1232	ND	0.5
53469-21-9	Aroclor-1242	ND	0.5
12672-29-6	Aroclor-1248	ND	0.5
11097-69-1	Aroclor-1254	ND	1
11096-82-5	Aroclor-1260	ND	1

SURROGATES:

Decachlorobiphenyl	<u>95.6</u> % Recovery	(25% - 140%)
2,4,5,6-Tetrachloro-m-xylene	<u>50.2</u> % Recovery	(13% - 154%)

NOTES AND DEFINITIONS FOR THIS SAMPLE:

ND = Not detected at or above the reporting limit

Order # 97-06-342
June 27, 1997 15:56

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

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Test Code: **808-PCB-W**
Sample Description: **WT5-LC**
Test Description: **PCB's (Water)**

Lab No: **04**

Collected: **06/13/97 910**
Category: **Water**
Method: **8081\3510**

Analyst: **MLS** Extracted: **06/20/97** File: **017R0101**
Instrument: **HP10** Injected: **06/25/97** Factor: **1** Units: **ug/L**

CAS#	COMPOUND	RESULT	REPORTING LIMIT
12674-11-2	Aroclor-1016	ND	0.5
11104-28-2	Aroclor-1221	ND	0.5
11141-16-5	Aroclor-1232	ND	0.5
53469-21-9	Aroclor-1242	ND	0.5
12672-29-6	Aroclor-1248	ND	0.5
11097-69-1	Aroclor-1254	ND	1
11095-82-5	Aroclor-1260	ND	1

SURROGATES:

Decachlorobiphenyl	97.6 % Recovery (25% - 140%)
2,4,5,6-Tetrachloro-m-xylene	59.8 % Recovery (13% - 154%)

NOTES AND DEFINITIONS FOR THIS SAMPLE:

ND = Not detected at or above the reporting limit

KEMRON ANALYST LIST

Ohio Valley Laboratory

05/29/97

AJS	-	-	Ashlee J. Scott
ALC	-	-	Ann L. Clark
BWH	-	-	Ben W. Haynes
CEB	-	-	Chad E. Barnes
CMS	-	-	Crystal M. Stevens
DIH	-	-	Deanna I. Hesson
DJP	-	-	Douglas J. Poling
DLP	-	-	Dorothy L. Payne
DST	-	-	Dennis S. Tepe
ECL	-	-	Eric C. Lawson
EDG	-	-	Eric D. Gerkin
ENH	-	-	E. Nick Hamner
FEH	-	-	Fay E. Harmon
FRM	-	-	Fred R. Montgomery
GWH	-	-	George W. Hutchison
HV	-	-	Hema Vilasagar
JEC	-	-	Jesse E. Chapman
JKM	-	-	June K. Morris
JLI	-	-	Janice L. Inghram
JLW	-	-	Jessica L. Wright
JMM	-	-	Jim M. Monk
JWR	-	-	John W. Richards
JYH	-	-	Ji Y. Hu
KHA	-	-	Kim H. Archer
KMM	-	-	Kevin M. McDonald
KPO	-	-	Kevin P. Overstreet
KRA	-	-	Kathy R. Albertson
LMW	-	-	Lisa M. Wagner
MBJ	-	-	Matthew B. Jarrell
MDA	-	-	Mike D. Albertson
MDC	-	-	Michael D. Cochran
MES	-	-	Mary E. Schiling
MFB	-	-	Mike F. Barrow
MLS	-	-	Michael L. Schimmel
MMB	-	-	Maren M. Beery
MSW	-	-	Mike S. Wetz
RDC	-	-	Rebecca D. Cutlip
REB	-	-	Russell E. Burton
REF	-	-	Ron E. Fertile
REK	-	-	Robert E. Kyer
RJS	-	-	Rick J. Santos
RWC	-	-	Rodney W. Campbell
SCM	-	-	Susan C. Moellendick
SCW	-	-	Stephen C. West
SLT	-	-	Stephanie L. Tepe
SPL	-	-	Steve P. Learn
TLD	-	-	Teresa L. Davis
VC	-	-	Vicki Collier
WCD	-	-	Wade C. Dawson

ORGANIC QA/QC

KEMRON ENVIRONMENTAL SERVICES
MARIETTA, OH
QUALITY CONTROL SUMMARY / PCB WATER , REAR

EXTN DATE : 6/20/97	INSTRUMENT : HP10	SMPL ID : NA
EXTN BENCH SHT : V75P88	ANALYST : MLS	SMPL FLNM : NA
EXTN WORK GRP : WG24668	RUN DATE : 6/25/97	MS FLNM : NA
	ANAL WORK GRP : WG24936	MSD FLNM : NA
	BLK FLNM : 011R0101	
	LCS FLNM : 012R0101	
	LCS Dup FLNM : 013R0101	

COMPOUND	RDL	CONCENTRATION , ug/L						% RECOVERY							PERCENT			
		LCS						LCS							MS/MSD			
		Blank	LCS	Dup	Sample	MS	MSD	Blank	LCS	Dup	LCS Limits	Sample	MS	MSD	Advisory Limits	LCS/LCS Dup RPD	MS/MSD RPD	RPD Advisory Limits
AROCLOR 1016	0.50	ND	NA	NA	ND	NA	NA	NA	NA	NA	48-125	NA	NA	NA	48-125	NA	NA	0-40
AROCLOR 1221	0.50	ND	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR 1232	0.50	ND	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR 1242	0.50	ND	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR 1248	0.50	ND	9.00	8.97	ND	NA	NA	NA	90.0	89.7	NA	NA	NA	NA	NA	0.30	NA	NA
AROCLOR 1254	1.00	ND	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR 1260	1.00	ND	NA	NA	ND	NA	NA	NA	NA	NA	59-122	NA	NA	NA	59-122	NA	NA	0-40
SURROGATES																		
2,4,5,6-TETRACHLORO-M-XYLENE		0.304	0.330	0.301	NA	NA	NA	60.8	66.0	60.2	13-154	NA	NA	NA	13-154			
DECACHLOROBIPHENYL		0.483	0.483	0.530	NA	NA	NA	96.6	92.6	106.0	25-140	NA	NA	NA	25-140			

NOTES & DEFINITIONS :

LCS, MS & MSD spiked at 10 ug/L	LCS=LABORATORY CONTROL SAMPLE
SURROGATES spiked at 0.5 ug/L	MS=MATRIX SPIKE
NA = NOT APPLICABLE	MSD=MATRIX SPIKE DUPLICATE
DL = DILUTED OUT	
ND = NOT DETECTED	
RDL=REPORTING DETECTION LIMIT	

CHAIN-OF-CUSTODY RECORD

№ 82767

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[illegible]

*Homogenize all composite samples prior to analysis

White - Lab Yellow - Office Pink - Field